

**AMENDMENTS TO THE CLAIMS****In the claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

What is claimed is:

1. **(currently amended)** A method for upmodulating an immune response comprising contacting an immune cell with an agent that downmodulates signaling via PD-1, wherein the agent comprises an antibody that recognizes a B7-4 polypeptide comprising the amino acid sequence shown in SEQ ID NO:4, to thereby upmodulate the immune response.
- 2-3. **(canceled)**
4. **(original)** The method of claim 1, wherein the immune cell is selected from the group consisting of: a T cell, a B cell, and a myeloid cell.
- 5-8. **(canceled)**
9. **(original)** The method of claim 1, wherein the step of contacting occurs *in vivo*.
10. **(original)** The method of claim 1, wherein the step of contacting occurs *in vitro*.
- 11-28. **(canceled)**
29. **(new)** The method of claim 1, wherein the immune cell is selected from the group consisting of a monocyte, a dendritic cell, a keratinocyte and a B cell.
30. **(new)** The method of claim 29, wherein the immune cell is activated.